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CMOSD4448

SUPER-MINI
HIGH SPEED
SWITCHING DIODE

SUPERTM
mini



SOT-323 CASE

CentralTM
Semiconductor Corp.

DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMOSD4448 type is a ultra-high speed silicon switching diode manufactured by the epitaxial planar process, in an epoxy molded super-mini surface mount package, designed for high speed switching applications.

MAXIMUM RATINGS: ($T_A=25^\circ C$)

	SYMBOL	UNITS
Continuous Reverse Voltage	V_R	V
Peak Repetitive Reverse Voltage	V_{RRM}	V
Continuous Forward Current	I_F	mA
Peak Repetitive Forward Current	I_{FRM}	mA
Forward Surge Current, $t_p=1 \mu\text{sec}$.	I_{FSM}	mA
Forward Surge Current, $t_p=1 \text{ sec}$.	I_{FSM}	mA
Power Dissipation	P_D	mW
Operating and Storage		
Junction Temperature	T_J, T_{stg}	$^\circ C$
Thermal Resistance	Θ_{JA}	$^\circ C/W$

ELECTRICAL CHARACTERISTICS: ($T_A=25^\circ C$ unless otherwise noted)

SYMBOL	TEST CONDITIONS	MIN	MAX	UNITS
V_{BR}	$I_R=5.0\mu\text{A}$	75		V
V_{BR}	$I_R=100\mu\text{A}$	100		V
I_R	$V_R=20\text{V}$		25	nA
V_F	$I_F=5.0\text{mA}$	0.62	0.72	V
V_F	$I_F=100\text{mA}$		1.0	V
C_T	$V_R=0, f=1 \text{ MHz}$		4.0	pF
t_{rr}	$I_R=I_F=10\text{mA}, R_L=100\Omega, \text{Rec. to } 1.0\text{mA}$		4.0	ns

All dimensions in inches (mm).

